

AMENDMENTS

IN THE SPECIFICATION

1. Please add the following sentence on page 7:

FIGURE 8 illustrates an embodiment having more than one set of electrodes.

2. Please replace the second paragraph on page 14, with the following amended paragraph:

Metal block 69 may itself comprise an array of electrodes connected together. Or, referring again to FIGURE 3_8, additional electrodes 81, made from a material different from that of electrodes 31, may be embedded in base 33 between electrodes 31. These additional electrodes 81 may be made from various materials, such as noble metals, ~~or pH responding metals~~. They may be connected through resistors 82 to a voltmeter in a manner similar to electrodes 31. Each subset of electrodes 31 or 81 may be connected to form a sensor and the corrosion information for different metals can be obtained by manipulating the signals from each subset. The same concepts may be extended to three or more subsets of electrodes, each having one or more electrodes made from the same metal or alloy and used to detect different corrosion.